Report of Ad-hoc group on HEP Demographics

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Issues?

- Number and quality of students entering field
- Attrition of students and postdocs
- Changes in these patterns in recent years

Is there a problem?

- Committee members differ in perspective on this
- Attrition is not new —is it different now?
- What external factors influence retention?
- Does the field treat young people well?
- Can anything be changed?

What does data tell us?

- PDG survey info collected for 8 years
- 4 years of data reviewed
- Difficult to track individuals through job transitions
- Large uncertainty in attrition numbers

Study of 1998-Departed List by Individual Category

Category	Total Departed	Traced	Incorrect etc	Maximum Departed
Graduate Students	280	49	11	220
Postdocs or Fixed-term Researchers	242	32	6	204
Untenured Open-term Researchers	35	7	1	27
Untenured Faculty	13	2		11
Total 1998-D	645	109	18	518

Total Number of HepFolks ~3600

Study of 1998-Departed List by Each Sub-category [by Florencia]

Category	Total	Left HEP	Left without Publication	HEP non- US	Stay In US HEP	Don't Know	Maximum Departed
Graduate Students	280	100	46		60		
Postdocs or Fixed-term Researchers	242	73	20		49		
Untenured Open-term Researchers	35	18	5		5		
Untenured Faculty	13	4	1		4		
Unknown	42	14	7		10		
Total 1998D	645	224	82	78	139	119	224+119+ 82 = 425

Study of 2002Data by Individual Category

Category	Total New (fromCensus)	Traced	Maximum New
Graduate Students	276	7	261
Postdocs or Fixed-term Researchers	228	47	176
Untenured Openterm Researchers	69	19	39
Untenured Faculty	28	7	18
Total 2002-D	643	91	515

What next?

- No conclusions possible from data so far
- Survey is valuable
- Data should be analyzed each year
- Some small changes in survey could facilitate tracking of individuals

Recommended changes to survey

- More info on departures and new hires
- Fields for prior position and new position
- Include info on prior or next institution
- Add only thesis-level students

General Recommendations

- Continue survey; support its costs
- Reinforce requirement to complete survey
- Annual effort to analyze data needed
- HEPAP take ownership of data analysis
- Goal is ongoing accurate demography
 (Ad-hoc group is ready to continue to work)